Alg 2B Hwk #6 Using the Unit Circle Spring 2018 Name:

Find the EXACT value of each using the Unit Circle.

1. $\text{Cos}\frac{17\pi}{3}$

2. $\text{Tan}(-510°)$

3. $\text{Sin}\frac{13\pi}{4}$

4. $\text{Tan}\frac{7\pi}{2}$

5. $\text{Cos}\left(-\frac{25\pi}{6}\right)$

6. $\text{Sin}1050°$

7. $\text{Tan}\frac{29\pi}{4}$

8. $\text{Cos}19\pi$

9. $\text{Sin}38\pi$

10. Use the given information to find the measure of all angles, θ, that meet each condition. Give θ in degrees where $0° \leq \theta \leq 360°$

a) $\text{Sin}\theta = -\frac{\sqrt{3}}{2}$

b) $\text{Cos}\theta = -\frac{\sqrt{2}}{2}$

c) $\text{Sin}\theta = -1$

d) $\text{Tan}\theta = \sqrt{3}$

11. Given $\text{Sin}\theta = \frac{1}{2}$ and $90° \leq \theta \leq 270°$ find $\text{Cos}\theta$

12. Given $\text{Sin}\theta < 0$ and $\text{Cos}\theta = \frac{\sqrt{2}}{2}$ find the value of θ in degrees.